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## ORGANISMS DIVERSITY & EVOLUTION

# On abyssal isopods (Crustacea: Isopoda: Asellota) from the Angola Basin: *Eurycope tumidicarpus* n. sp. and redescription of *Acanthocope galathea* Wolff, 1962<sup>‡</sup>

Cornelia Schmid, Nils Brenke, Johann Wolfgang Wägele\*

Lehrstuhl Spezielle Zoologie, Ruhr-Universität Bochum, Germany

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## Abstract

Rich samples of benthic Peracarida collected from abyssal plains of the Angola Basin (South Atlantic) contained several new and rare asellote isopods. In this contribution, *Eurycope tumidicarpus* n. sp. is described from well-preserved specimens. This species is remarkable because the second pereopod has an enlarged carpus, and pereopod 4 is shaped like the posterior swimming legs. New specimens of *Acanthocope galathea* Wolff, 1962 (Fig. 1a) are used for a redescription, hitherto unknown characters of the male are shown.

Diagnosis of *Eurycope tumidicarpus* n. sp. (Fig. 1b–g): Species with the diagnostic characters of *Eurycope* Sars, 1864 (see Wilson & Hessler 1981, Wägele 1989, Wilson 1989). Rostrum present but short, rounded, with two setae; width of cephalothorax about 0.7 of maximal body width; pereonite 5 about as long as pereonite 6 and with roughly parallel lateral margins, with rounded posterior edges; pereonite 7 more than twice length of pereonite 6; pleotelson wider than long, about as long as pereonite 7, without lateral or terminal projections, tip bent downward. Broad antennular article 1 three times wider than second article, with medial lobe bearing apically 4 spines, second article as long as first article. Carpus of pereopod 2 widened, broadly oval. Ischium, carpus, and propodus of pereopod 4 somewhat expanded and furnished with swimming setae, merus with a single swimming seta. Male pleopod 1 medially with 5 hemiplumose setae on ventral surface, distal tip of inner apical lobes rounded. Pleopod 2 with 7 proximolateral hemiplumose setae, protopod apically with small distal projection (vermiform appendage) bearing 2 short, hemiplumose terminal setae. Uropodal protopod with rounded medial projection, exopod smaller than half length of endopod.

Types and locality: Holotype male (Zoological Museum Berlin Nr. 27400), 3.59 mm, collected from station St.350 on cruise M48/1 with RV "Meteor" (16°13.3'S 05°26.8'E – 16°14.9'S 05°26.7'E, depth 5389 m). Paratype male (Zoological Museum Berlin Nr. 27400), 3.9 mm, from St.348 (16°17.1'S 05°27.3'E – 16°19.3'S 05°27.2'E, 5389–5387 m).

**Key words:** taxonomy, Crustacea, Isopoda, Asellota, *Eurycope tumidicarpus* n. sp., *Acanthocope galathea*, deep-sea, Angola Basin, South Atlantic

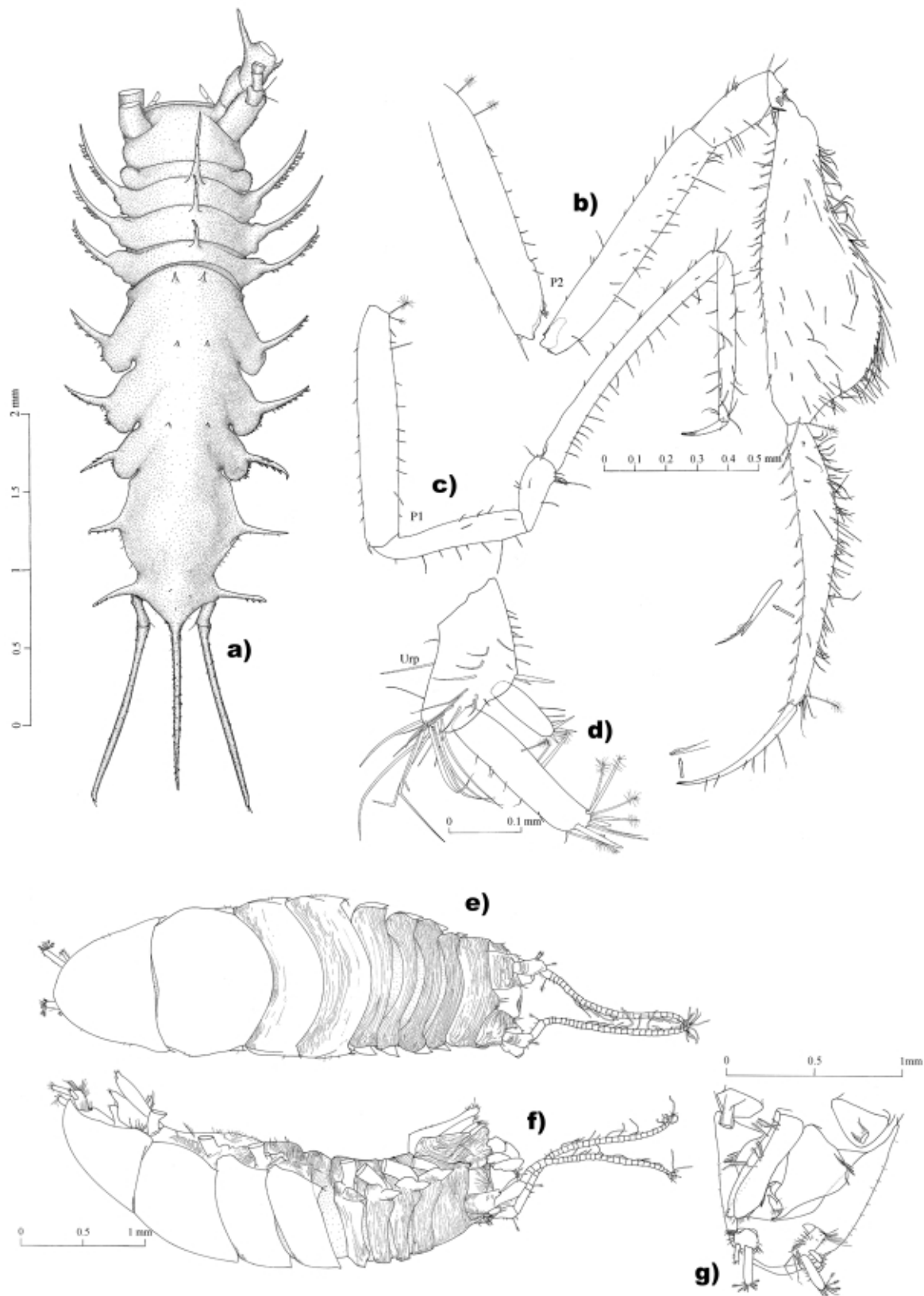
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<sup>‡</sup>Results of the DIVA 1 expedition (cruise M48/1 of RV "Meteor")

\*Corresponding author: Johann Wolfgang Wägele, Lehrstuhl Spezielle Zoologie, Fakultät Biologie, Ruhr-Universität Bochum, D-44780 Bochum, Germany; e-mail: [johann.w.waegel@ruhr-uni-bochum.de](mailto:johann.w.waegel@ruhr-uni-bochum.de)



**Fig. 1.** a. *Acanthocope galathea* Wolff, 1962; male (3.3 mm length), dorsal view. b-g. *Eurycope tumidicarpus* n. sp.; male holotype (3.6 mm): b. Pereopod 2. c. Pereopod 1. d. Uropod. e. Whole animal, dorsal view. f. Lateral view. g. Details of pleotelson, ventral.